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Assessment of the antibacterial activity of actinomycetes isolated from terrestrial soil of King Saud University campus

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A main objective of the present study was to isolate and identify the antibacterial activity of actinomycetes strains obtained from terrestrial habitat and to utilize the antibacterial production profitably for the eradication of pathogens which cause disease to human being. The actinomycetes strains were isolated from terrestrial soil sample of King Saud University, Riyadh, Kingdom of Saudi Arabia. The isolated actinomycetes strains were identified and selected for further antibacterial activity. *Streptomyces* spp. showed the best level of antibacterial effect against selected human pathogens like *Staphylococcus aureus*, *Bacillus subtilis*, *Escherichia coli* and *Pseudomonas aeruginosa*. The *Streptomyces* may offer a potential use in development of treatments for diseases based on the normal physiological role of their secondary metabolites. Hence, it is anticipated that the isolation and identification of actinomycetes may be useful in the discovery of novel antibiotics from actinomycetes.

Biography

Arunachalam Chinnathambi has completed his PhD at the age of 28 years from Bharathidansan University, India and has trained few molecular techniques from National University of Singapore. He is a young, energetic and enthusiastic Microbiologist and has 10 years' experience in both teaching and research. He has participated in several international, national conferences, symposia and presented research papers and recently he presented his novel research in University of London. He has published more than 31 papers in reputed national and international journals and serving as an editorial board member of reputed journal and also has lifetime membership of few Microbiology associations.

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